

WARM-UP!

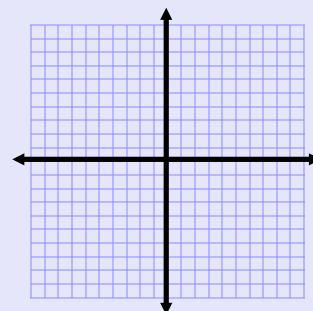
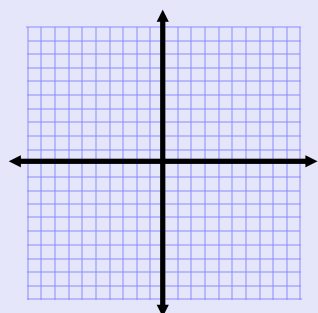
1.  $6 + \sqrt{3 \cdot 4 + 4}$

2.  $5 + 7 \cdot \sqrt{25 + 11}$

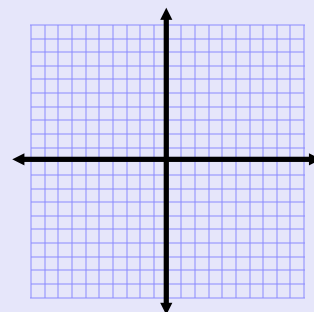
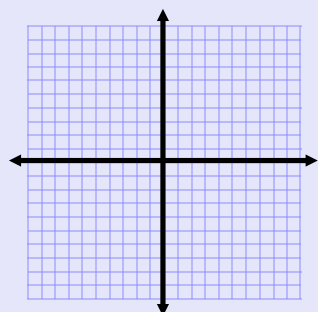
3.  $\frac{2^2}{100 \div 10}$

Handwritten work for problem 2:

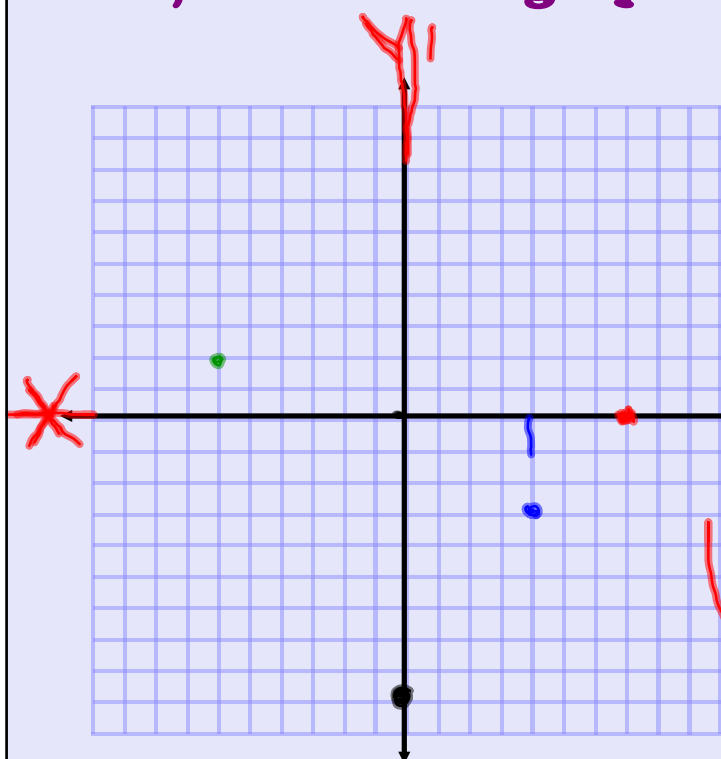
$$\begin{aligned} & \underline{5 + 7 \cdot \sqrt{36}} \\ & 5 + 7 \cdot 6 \\ & 5 + 42 \\ & \textcircled{47} \end{aligned}$$



# Graphing with X-Y Tables



**First, let's review graphing.**



**Which axis is the x-axis?**

**Which axis is the y-axis?**

**Use the matching marker color to plot these points:**

**(4, -3)**

**(7, 0)**

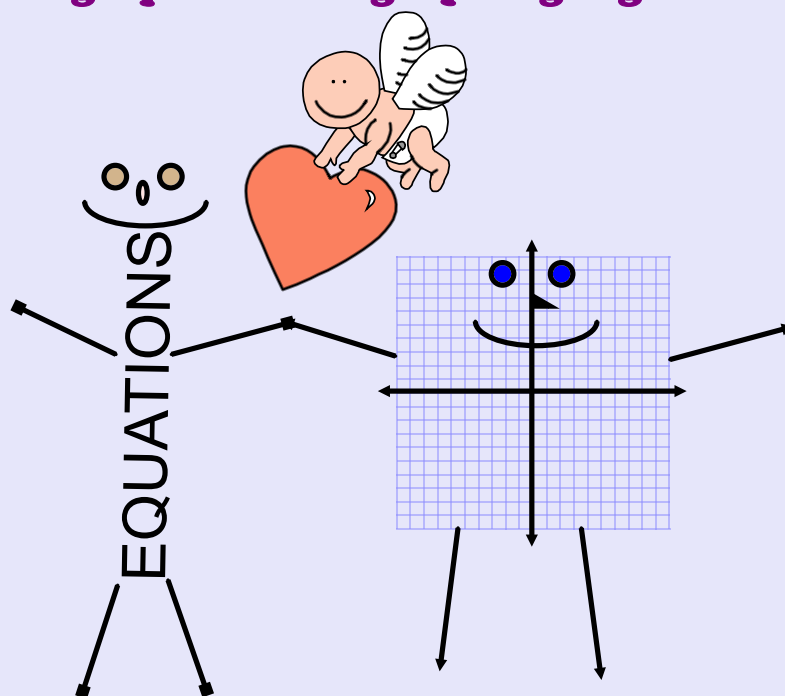
**(-6, 2)**

**(0, -9)**

**Now, let's review solving equations.**

$$\mathbf{-2x - 19 = 43}$$

**Now, let's bring the worlds of  
solving equations & graphing together!**



Edit

Reset

## Graphing with X-Y Tables

?

- 1 Set up a x-y table.
- 2 Use the values -2, 0, and 2 as x values.
- 3 Solve THREE equations using the different x values.  
Put answers in the y column.
- 4 Plot the points.
- 5 Use a straightedge to connect the points. Use arrows at the ends of the line.

**1)  $y = -3x + 4$**

X	Y
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-2	10	$\rightarrow (-2, 10)$
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0	4	$(0, 4)$
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2	-2	$(2, -2)$
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$$y = -3x + 4$$

$$y = -3 \cdot (-2) + 4$$

$$y = 6 + 4$$

$$y = 10$$

$$y = -3x + 4$$

$$y = -3 \cdot 0 + 4$$

$$y = 0 + 4$$

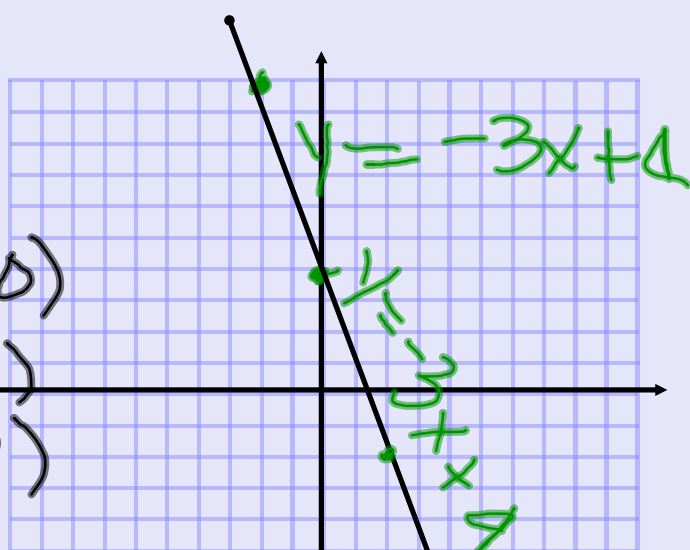
$$y = 4$$

$$y = -3 \cdot 2 + 4$$

$$y = -6 + 4$$

$$y = -2$$

$$y = -2$$



2)  $y = 2x - 5$

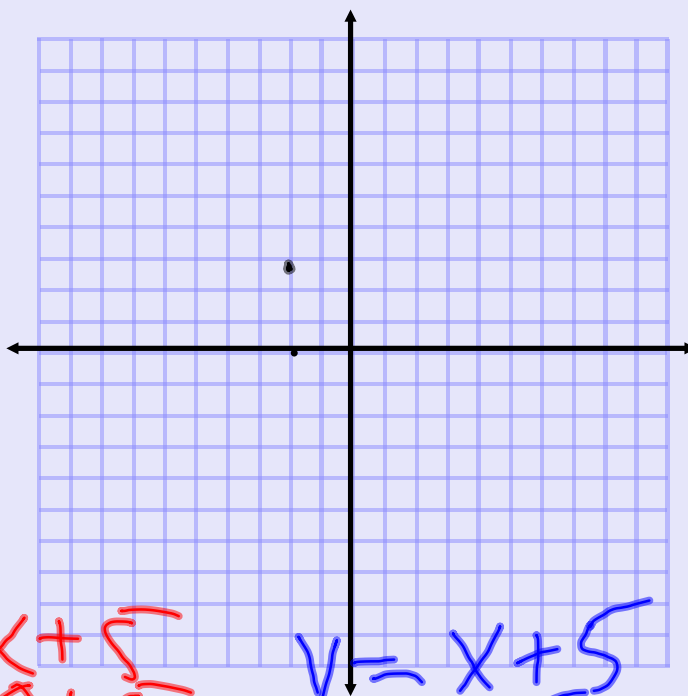
$$y = x + 5$$

X	Y
-2	3
0	5
2	7

$$\begin{aligned} y &= x + 5 \\ y &= -2 + 5 \\ y &= 3 \end{aligned}$$

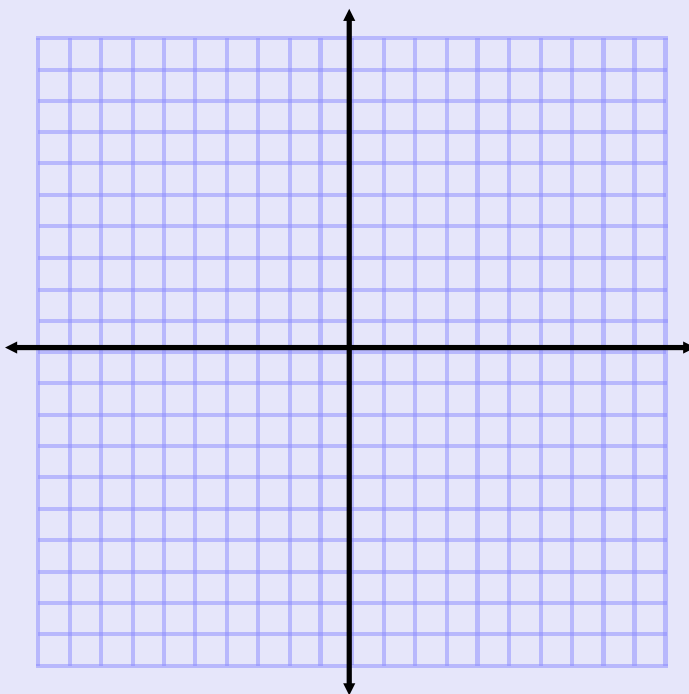
$$\begin{aligned} y &= x + 5 \\ y &= 0 + 5 \\ y &= 5 \end{aligned}$$

$$\begin{aligned} y &= x + 5 \\ y &= 2 + 5 \\ y &= 7 \end{aligned}$$





**3)  $y = -x + 6$**





# Planner Time



WARM-UP

1.  $6 + \sqrt{3 \cdot 4 + 4}$

2.  $5 + 7\sqrt{25 + 11}$

3.  $\frac{2^2 + 1}{100 \div 10}$